

**PAT-NO:** JP361288004A  
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**TITLE:** UTILIZING METHOD FOR  
CONVERTER WASTE GAS  
**PUBN-DATE:** December 18, 1986

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KAWASAKI STEEL CORP	N/A
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**ABSTRACT:**

PURPOSE: To effectively utilize converter waste

gas by introducing the converter waste gas into a carbonaceous material fluidized bed and converting the gas then storing such gas, further increasing the temp. of the stored gas and introducing the gas into a powdery iron ore fluidized bed thereby reducing the iron ore.

CONSTITUTION: The carbonaceous material is charged through a charging port 6 into the fluidized bed 5 and the converter waste gas under blowing is introduced into the fluidized bed 5 as the 1st stage. The CO<sub>2</sub> and H<sub>2</sub> in the gas are converted to CO, H<sub>2</sub> by the above-mentioned carbonaceous material and the gas is once stored in a gas holder 19. The above-mentioned carbonaceous material is discharged from a discharge port 8 of the fluidized bed 5 and thereafter the preheated iron ore is charged through the port 6 into the fluidized bed as the 2nd stage. The stored gas is then introduced by an intensifying blower 10 into the fluidized bed 5 and part of the gas is partially burned to increase the temp. of the gas to a prescribed temp. The iron ore is thereby reduced. The iron ore after the reduction is discharged from a discharge port 7. The converter gas is thus effectively utilized for the gas conversion and the ore reduction without receiving the restriction for the blowing time of the converter 1.

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